

CLAIMS

1. 1. Aircraft comprising
a cargo compartment (2) with a cargo-
5 compartment floor (3);
supporting elements (16), in particular floor
beams to support a cargo-compartment floor (3) and to be
connected to a body or a skin (1) of the aircraft;
functional units (56, 58, 59), in particular
10 water tanks, waste-water tanks, EE racks or similar
electronic components;
characterized in that the functional units (56, 58, 59)
comprise pallets (70) or similar supporting structures
to transport the functional units (56, 58, 59) into the
15 cargo compartment (2), said pallets (70) being provided
with fixation devices (71) to create a stable connection
to the cargo-compartment floor (3).
2. Aircraft according to Claim 1, characterized in that the
20 pallets (70) and/or the cargo-compartment floor (3)
comprise connecting devices (61, 72) to join connection
leads (73) or similar functional devices of the
functional units (56, 58, 59) to corresponding
connection leads (26, 27) of the aircraft.
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3. Aircraft according to one of the preceding claims,
characterized in that the cargo compartment (2) is
equipped with guide devices (74) to guide the functional
units as they are being transported within the cargo
30 compartment (2).
4. Aircraft according to one of the preceding claims, in
particular according to Claim 3, characterized in that
the guide devices (74) comprise guide rails along side
35 walls and/or along a ceiling of the cargo compartment.

5. Aircraft according to one of the preceding claims, characterized in that at least sections of partitions (54) can be or are mounted on the pallets (70).
- 5 6. Aircraft according to one of the preceding claims, characterized in that the functional units (56, 58, 59) can be or are mounted on at least sections of partitions (54).
- 10 7. Aircraft according to one of the preceding claims, in particular one of the claims 5 or 6, characterized in that the partitions (54) comprise sealing devices (64) to seal them to the cargo compartment (2).
- 15 8. Aircraft according to one of the preceding claims, characterized in that the cargo-compartment floor (3) comprises floor elements (51, 51') that are connected to the supporting elements (16) to form prefabricated floor
20 modules (50, 50').
9. Aircraft according to one of the preceding claims, in particular according to Claim 8, characterized in that sections of cable channels (23), hydraulic conduits
25 (25), water conduits (26), electrical leads (27) or similar conducting devices are provided in the floor modules (50) in such a way that together with conducting devices of the same kind in adjacent floor modules (50') they form overall conducting systems when the floor
30 modules (50, 50') are installed in the aircraft.
10. Aircraft according to one of the preceding claims, in particular according to Claim 9, characterized in that the conducting devices (23, 25-27) comprise branches
35 (28) for connection to prespecified places on the floor elements (51) and/or the functional units (56, 58, 59).

11. Cargo-compartment floor according to one of the preceding claims, in particular according to one of the claims 8-10, characterized in that assembly elements (30) are provided on the floor modules (50) or floor elements (51) for mechanically stable connection to adjacent floor modules (50') or floor elements (51') during or after installation in the aircraft.
12. Aircraft according to one of the preceding claims, in particular according to one of the claims 8-11, characterized in that the floor elements (51) comprise sealing devices (40) for sealing off a space above the floor elements (51) from a space below them.
13. Aircraft according to one of the preceding claims, in particular according to one of the claims 8-12, characterized in that leakproof connecting elements (43, 44) are provided to create a leakproof connection between the floor elements (51) and adjacent floor elements (51') and/or the skin (1) of the aircraft.
14. Aircraft according to one of the preceding claims, in particular according to one of the claims 8-13, characterized in that drainage devices (46) are provided to carry liquids out of the cargo compartment (2) and to transfer the liquid into corresponding drainage devices of adjacent floor modules (50').
15. Aircraft according to one of the preceding claims, in particular according to one of the claims 8-14, characterized in that the floor modules (50) comprise insulating devices (53) to insulate a lower half (6) of the fuselage.

16. Aircraft according to one of the preceding claims, in particular according to Claim 15, characterized in that the insulating devices (53) are attached below the floor elements (51) and/or in the region of the supporting elements (16) near the skin (1).
17. Aircraft according to one of the preceding claims, in particular according to one of the claims 8-16, characterized in that the floor modules (50) comprise bulkheads or similar partitions (54) or fixation devices (55) for the fixation of partitions (54).
18. Aircraft according to one of the preceding claims, in particular according to one of the claims 8-17, characterized in that the floor modules (50) comprise wall linings and/or ceiling linings or similar lining elements (62) or mounting devices (63) for said elements, in order to line the cargo compartment (2).
19. Method of manufacturing an aircraft comprising
a cargo compartment (2) with a cargo-compartment floor (3);
supporting elements (16), in particular floor beams to support a cargo-compartment floor (3) and to be connected to a body or a skin (1) of the aircraft;
functional units (56, 58, 59), in particular water tanks, waste-water tanks, EE racks or similar electronic components;
characterized in that
the functional units are mounted outside the aircraft on pallets or similar supporting structures,
the mounted functional units are loaded into the aircraft and on the cargo-compartment floor are transported to a destination in the cargo compartment, and

the mounted functional units are fixed to the cargo-compartment floor at the destination site.

20. Method according to Claim 19, characterized in that at
5 least sections of partitions are mounted on the pallets or on the functional units while they are outside the aircraft.